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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/406,844	09/29/1999	IN TAE HWANG	CIT/K-091	1994

7590 10/03/2002
FLESHNER & KIM
P O BOX 221200
CHANTILLY, VA 201531200

EXAMINER

TRAN, PABLO N

ART UNIT	PAPER NUMBER
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2684

DATE MAILED: 10/03/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/406,844

Applicant(s)

HWANG ET AL. *th*

Examiner

Pablo N Tran

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☐ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s) ____.
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ 6) ☐ Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) do not apply to the examination of this application as the application being examined was not (1) filed on or after November 29, 2000, or (2) voluntarily published under 35 U.S.C. 122(b). Therefore, this application is examined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-17 are rejected under 35 U.S.C. 102(e) as being anticipated by *Widegren et al.* (6,374,112).

As per claims 1 and 13-14, *Widegren et al.* disclosed a method for performing data communication between a mobile station MS (see fig. 1/no. 30) and a network (fig. 1) which have media access control MAC sublayers (fig. 7), respectively, a method for branching data in a mobile communication terminal, comprising the steps of allowing each of said MAC sublayers of said MS and network to attach logical channel type based on traffic characteristics info. and a radio bearers status to a MAC header

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contained in data to be sent in a data sending mode, to branch said data to be sent to transport channels corresponding to the attached logical channels, to determine logical channels corresponding logical types of a MAC header contained in received data in a data receiving mode to branch said received data to said determined logical channels (fig. 4-6, fig. 9, col. 2/ln. 49-col. 4/ln. 49, col. 9/ln. 5-col. 13/ln. 42, col. 15/ln. 39-col. 16/ln. 41).

As per claims 2 and 15, *Widegren et al.* disclosed said MAC sublayers to perform a channel mapping operation in a one-to-one, many-to-one, or one-to-many manner to branch said data to be sent or said received data (see col. 9/ln. 50-63).

As per claims 3-4 and 16-17, *Widegren et al.* disclosed said traffic characteristic info includes traffic characteristic identifiers transferred from a radio source control layer and other upper layer. Such traffic characteristic identifiers represent any one of random access data, synch. data, system data, paging info/forward access grant info, short message service data, no radio bearer short packet data, signaling data, radio bearer short/long packet data, multicast signaling data, or multicast data and speech (see col. 7/ln. 54-col. 8/ln. 13, col. 10/ln. 15-21, col. 10/ln. 64-col. 12/ln. 11).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 5-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Widegren et al.* (6,374,112).

As per claims 5-12, *Widegren et al.* disclose such specific way of channels mapping operation (see fig. 7-9, col. 9/ln. 50-63, col. 13/ln. 43-col. 16/ln. 29) but do not explicitly disclosed other adapted way of channel mapping operations as cited in claims 5-12. However, it is obvious that any other way of channel mapping operations can be used as long as it provide channels mapping operations and multiplexing/demultiplexing between logical and transport channels according to traffic characteristics to branch data. Therefore, it would have been obvious to one of ordinary skill in the art to utilize such channel mapping operations, as cited in claims 5-12, to the channels mapping operations of *Widegren et al.* in order to flexibility providing a wide variety of mobile communications services and efficiently allocating resources to support those services.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Chuah et al. (6,400,695), Hamalainen et al. (5,640,395), and Hamalainen et al. (5,729,541) disclose transmitting packet data in a radiotelephone communications system.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pablo Tran whose telephone number is (703)308-7941.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel Hunter, can be reached at (703)308-6732.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

September 30, 2002

PABLO N. TRAN
PATENT EXAMINER

A handwritten signature in black ink, appearing to be 'Pablo N. Tran', with a stylized, sweeping flourish at the end.